

**International Harmonized Research Activities - Intelligent Transport Systems
Working Group Meeting
Stockholm, Sweden
October 19, 1999**

Minutes

Attendees:

Dr. Ian Noy (Chairman, Transport Canada, Canada)
Mr. Christopher Patten (National Road Administration, Sweden)
Dr. August Burgett (NHTSA, U.S.)
Dr. med. B. Friedel (BASt, Germany)
Dr. Annie Pauzié (INRETS, France)
Mr. Kaneo Hiramatsu, (JARI, Japan)

1. Minutes approved and Introductions

- I. Noy welcomed members and thanked Chris Patten for hosting the WG meeting and organizing the workshop.
- Minutes of the previous meeting were approved. Most action items are complete or in-progress.
- K. Hiramatsu presented an outline of IHRA activities, emphasizing first term information exchange, mid-term research activities and long term prospects for developing standards and regulations. B. Friedel indicated IHRA should be prepared to recommend regulations based on best current knowledge as regulators may not have time to wait for research results. WG emphasis should be Projects 1 and 3. The need to update the comparison of the various guidelines/principles and add a column for the TRL checklist was discussed. I. Noy will ask K. Hiramatsu, B. Friedel and G. Harvey (A. Stevens) to update relevant sections of the matrix.
- A. Burgett provided members a copy of the NHTSA ICC Field Operational Test.

2. Relations with European Commission

- I. Noy reported that he received a letter from F. Karamitsos, EC DGXIII (attached), indicating willingness to consider collaborative opportunities within EU's 5th Framework Programme. EC is funding relevant projects such as RESPONSE and others. It was noted that EC is being re-organized, though there is no information about how this will affect European projects or prospects for collaboration..
- I. Noy will invite F. Karamitsos to discuss collaborative mechanisms during the upcoming ITS World Congress in Toronto. WG is interested in overview of EU's

projects (4th and 5th FWP) related to ITS safety T&E, and results of relevant European research. WG members attending the Congress will be invited (need to ensure that European members of WG are present). The principal project to be outlined is Project 1. IHRA to propose concrete projects but need further information concerning timelines, steps, prospects for success. IHRA will consider creating consortium to submit proposal to 5th FWP, if appropriate.

- Chris Patten will discuss EU Project RESPONSE with project leaders at upcoming RESPONSE workshop in Cologne. Specific items for discussion include: possible role of government partners in project, plans for post-2000 continuation, openness to international collaboration. A. Burgett reported on Liability workshop recently held in Washington. He noted the interest in black box recorders and associated issues of privacy and data ownership, though several automatic collision notification systems are in operation. A. Burgett to send proceedings of U.S. workshop to WG members.
- I. Noy will write to DGVII after Checklist Workshop to inform of IHRA interest and suggest checklist for possible inclusion in EurNCAP, if appropriate. This may lead to collaboration with DGVII.
- Other relevant European projects include GADGET (evaluation of human-machine interface - project is complete but report not yet available), DIAMOND, COMMUNICAR, ADVISE

3. **IHRA Priority Projects**

- I. Noy indicated that no results were received for the Netherlands or UK. I. Noy will follow up with WG members, and possibly GFP's.
- Some contact information was missing from survey results. I. Noy will compile complete set of results and send to WG members for verification and completion of missing information. The updated list of project partners will be sent to project leaders.
- Project leaders to contact interested partners to determine best method of collaboration and produce study plans. Project plans, including definition of studies to be undertaken, timelines and specific partners, are to be sent to I. Noy by the end of March, 2000. I. Noy will develop guidelines that leaders can use in communicating with potential project partners to help determine project plans.
- **Project 1:** A. Pauzié suggested that Project 1 could build on previous EU project HARDIE. It is necessary to update HARDIE, and focus on techniques that can be used for predicting safety. Then, partners would have an opportunity to comment on applicability of techniques identified, advantages and disadvantages. Further research may be warranted to validate or further develop certain techniques. A.

Pauzzié will discuss with D. Augello and prepare for first week November an outline for Project 1. A. Burgett suggested that Project 1 could also encompass projects 3-7. Dr. Friedel indicated that Germany will participate in this project and is seeking partners for collaboration. Dr. Schulze from BAST will be the German scientific authority.

- **Project 2:** Project 2 leader will be I. Noy. I. Noy indicated that TC is planning to investigate issues associated with ACC safety. The possibility of collaboration with NHTSA's using NADS was raised. I. Noy to discuss with A. Burgett. A. Burgett to provide information about the Michigan FOCAS project.
- **Project 3:** Title changed to "Human Factors Principles Checklist for In-Vehicle Systems". Project will be co-lead by C. Patten. WG members commented that this is a subjective procedure which may be difficult for governments to implement. The checklist is viewed as a first screen to identify areas where further evaluation may be required. The workshop following the WG meeting will explore the utility of checklists for developing consumer product information.
- **Project 4:** No specific items were discussed related to this project.
- **Project 5:** It was suggested that this project might be extended in the future to include test track reference test scenarios.
- **Project 6:** I. Noy described the computer-based attention model developed by VPI (T. Dingus) for FHWA. I. Noy will attempt to distribute to WG members copies for beta testing.
- **Project 7:** This project is highly related to projects 4 and 6 but will be kept as a separate project with A. Burgett as project leader. I. Noy described joint research with NHTSA using an eye tracking system (Vision 2000) to investigate the effects of Auto-PC on driving.
- **Project 8:** This project will be dormant for the time being as it has lower priority.

4. **Checklist Workshop**

- C. Patten presented plan for the 2-day workshop. Five Audi A6's equipped with Travel Pilot using Teleatlas Intelligent Maps will be used. A special route was developed. Participants will have opportunity to drive a vehicle and complete the TRL checklist. The second day will be devoted to navigation system performance issues and discussion of checklist utility. Recommendation for checklist improvements will be documented.

5. **Next meeting: Lyon, April 12-13**

6. Action items

- I. Noy to ask K. Hiramatsu, B. Friedel and G. Harvey (A. Stevens) to update relevant sections of the guidelines comparison matrix
- I. Noy to invite F. Karamitsos to discuss collaborative mechanisms during the upcoming ITS World Congress in Toronto.
- Chris Patten to discuss EU Project RESPONSE with project leaders at RESPONSE workshop in Cologne
- A. Burgett to send proceedings of U.S. workshop to WG members.
- I. Noy to follow up with WG members who did not respond to project survey, and possibly GFP's
- I. Noy to compile complete set of contacts and send to WG members for verification and completion of missing information.
- I. Noy to send updated list of project partners to project leaders.
- I. Noy will develop guidelines that leaders can use in communicating with potential project partners to help determine project plans
- Project leaders to develop plans, including definition of studies to be undertaken, timelines and specific partners
- Project leaders to send plans to I. Noy by the end of March, 2000
- A. Pauzié to discuss Project 1 with D. Augello and prepare for first week November a project outline that can be presented to F. Karamitsos
- I. Noy to discuss with A. Burgett possibility of TC/NHTSA collaboration in ACC using NADS.
- A. Burgett to distribute information about the Michigan FOCAS project.
- I. Noy to seek permission to distribute VPI workload model to WG members for beta testing.